

Project :- Auto Repair Center

Location :- 95 State Crown Blvd, Toronto, ON

Estimate Date :- 11th February 2021

Estimator :- Tesbee Consultancy

Mechanical Estimate - Building A

	Description	Unit	QTY	Material Rate	Material Amount	Labor Rate	Labor Amount	Unit Rate	Amount
	Building A								
	HVAC Gas piping								
1	1/2" dia	L.ft	9	4.85	43.65	3.65	32.85	8.50	76.50
2	3/4" dia	L.ft	35	4.85	169.75	3.65	127.75	8.50	297.50
3	1" dia	L.ft	399	4.85	1,935.15	3.65	1,456.35	8.50	3,391.50
4	1-1/4" dia	L.ft	432	4.85	2,095.20	3.65	1,576.80	8.50	3,672.00
	Exhaust Fan								
5	Type- EF-1 Exhaust Fan, mfd by:-Greenheck, Model:-SP-A200, 224 CFM	Nos	1	412.00	412.00	100.00	100.00	512.00	512.00
6	Type- EF-2 Exhaust Fan, mfd by:-Greenheck, Model:-CUBE-141, 2518 CFM	Nos	1	1,376.00	1,376.00	180.00	180.00	1,556.00	1,556.00
7	Type- EF-3 - EF-6 Exhaust Fan, mfd by:-Greenheck, Model:-CUBE-121, 1883 CFM	Nos	4	1,400.00	5,600.00	180.00	720.00	1,580.00	6,320.00
8	Type- EF-7 Exhaust Fan, mfd by:-Greenheck, Model:-CUBE-121, 1863 CFM	Nos	1	1,400.00	1,400.00	180.00	180.00	1,580.00	1,580.00
	Tube Heater								
9	Type- UH-1 Water Heater , mfd by:-Superior radiant , Model:-UA-220, 60'-0", 120 / 1 / 60	Nos	1	1,425.00	1,425.00	1,100.00	1,100.00	2,525.00	2,525.00
10	Type- UH-2 Water Heater , mfd by:-Superior radiant , Model:-UA-100, 30'-0", 120 / 1 / 60	Nos	1	1,225.00	1,225.00	1,100.00	1,100.00	2,325.00	2,325.00
11	Type- UH-3 - UH12 Water Heater , mfd by:-Superior radiant , Model:-UA-125, 30'-0", 120 / 1 / 60	Nos	10	1,225.00	12,250.00	1,100.00	11,000.00	2,325.00	23,250.00
	Baseboard Heater								
12	Type- BBH-1 Baseboard Heater, mfd by:-ELECTROMODE, Model:-BN5712W11, 120V, 1250 W/ 4265 BTU, 56-11/16" Length	Nos	2	52.00	104.00	110.00	220.00	162.00	324.00
	Louvers								
13	Type- L-1 Louver, mfd by:-Greenheck, Model:-EAD-601, 12 x 21 Size, C/W Bird screen, electric actuator L-1 interlocked with exhaust fan, EF-1	Nos	1	645.00	645.00	160.00	160.00	805.00	805.00
	Gravity Vent								
14	Type- GV-1 Gravity VentGravity Vent, mfd by:-Greenheck, Model:-GRSI-36, 2518 CFM 57"dia x 23"height	Nos	1	790.00	790.00	190.00	190.00	980.00	980.00
15	Type- GV-2 - GV-5 Gravity VentGravity Vent, mfd by:-Greenheck, Model:-GRSI-30, 1883 CFM 48"dia x 20.5"height	Nos	4	765.00	3,060.00	190.00	760.00	955.00	3,820.00
16	Type- GV-6 Gravity VentGravity Vent, mfd by:-Greenheck, Model:-GRSI-30, 1863 CFM 57"dia x 20.5"height	Nos	1	765.00	765.00	190.00	190.00	955.00	955.00
	Vent								
17	Type- VTR, 3" sized Vent Thru Roof	Nos	6	95.00	570.00	148.00	888.00	243.00	1,458.00
18	1-1/2" vent	L.ft	18	2.00	36.00	6.10	109.80	8.10	145.80
	Plumbing								
	Storm (Above ground)								
19	4" dia	L.ft	58	5.10	295.80	10.90	632.20	16.00	928.00

Mechanical Estimate - Building A

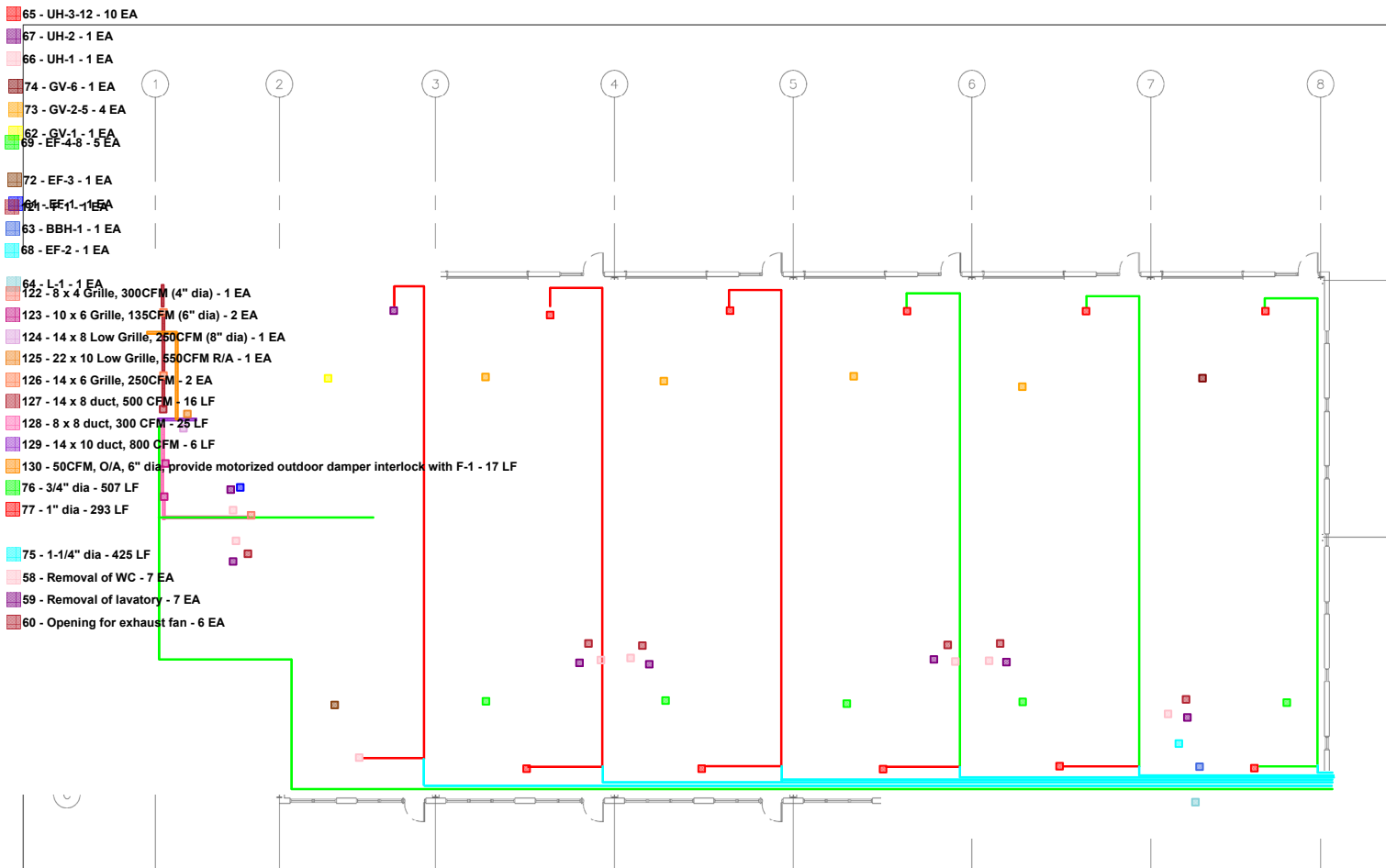
	Description	Unit	QTY	Material Rate	Material Amount	Labor Rate	Labor Amount	Unit Rate	Amount
	Building A								
20	5" dia	L.ft	36	5.80	208.80	11.90	428.40	17.70	637.20
21	8" dia	L.ft	181	8.50	1,538.50	14.00	2,534.00	22.50	4,072.50
	Domestic water supply (Above ground)								
22	1" dia	L.ft	50	4.85	242.50	3.65	182.50	8.50	425.00
23	1 1/4" dia	L.ft	47	4.85	227.95	3.65	171.55	8.50	399.50
24	1 1/2" dia	L.ft	42	4.85	203.70	3.65	153.30	8.50	357.00
25	2" dia	L.ft	22	6.90	151.80	3.90	85.80	10.80	237.60
	Valves								
26	1" domestic cold water valved connection for future use	Nos	6	115.00	690.00	70.00	420.00	185.00	1,110.00
27	Valves	Nos	10	95.00	950.00	70.00	700.00	165.00	1,650.00
28	Backflow preventer	Nos	1	820.00	820.00	633.00	633.00	1,453.00	1,453.00
	Sanitary (Below ground)								
29	4" dia	L.ft	115	3.80	437.00	10.50	1,207.50	14.30	1,644.50
30	6" dia	L.ft	56	8.20	459.20	16.00	896.00	24.20	1,355.20
31	Water meter (2")	Nos	1	475.00	475.00	291.00	291.00	766.00	766.00
32	Thermal expansion tank	Nos	1	820.00	820.00	470.00	470.00	1,290.00	1,290.00
33	Domestic hot water tank, ref-M-2 (Allowance)	Nos	1	12,000.00	12,000.00	1,500.00	1,500.00	13,500.00	13,500.00
	Fixtures								
34	Provide electronic trap primer to floor drain	Nos	1	75.00	75.00	150.00	150.00	225.00	225.00
35	4" Floor drain	Nos	1	65.00	65.00	110.00	110.00	175.00	175.00
36	Roof Drain, mfd by:-Zurn, Model:-Z125, 8-3/8"dia, 4-1/2"height (HEAD)	Nos	3	155.00	465.00	100.00	300.00	255.00	765.00
	Saw-cut and make good								
37	Allow for saw-cut and make good concrete slab	L.ft	171	9.10	1,556.10	18.90	3,231.90	28.00	4,788.00
	Sub Total				55,583.10		34,188.70		89,771.80
	Insurance	3%			1,667.49		1,025.66		2,693.15
	Overhead and Profit	22%			12,228.28		7,521.51		19,749.80
	Total Amount				69,478.88		42,735.88		112,214.75

Mechanical Estimate - Building B

	Description	Unit	QTY	Material Rate	Material Amount	Labor Rate	Labor Amount	Unit Rate	Amount
	Building B								
	Supply Air Duct								
1	Sheet metal duct	Lbs	175	2.80	490.00	5.60	980.00	8.40	1,470.00
	Return Air Duct								
2	Sheet metal duct	Lbs	33	2.80	92.40	5.60	184.80	8.40	277.20
	Outdoor Air Duct								
3	Sheet metal duct	Lbs	17	2.80	47.60	5.60	95.20	8.40	142.80
	Duct ancillaries								
4	6" dia, provide motorized outdoor damper interlock w	Nos	1	115.00	115.00	80.00	80.00	195.00	195.00
	HVAC Gas piping								
5	3/4" dia	L.ft	507	4.85	2,458.95	3.65	1,850.55	8.50	4,309.50
6	1" dia	L.ft	293	4.85	1,421.05	3.65	1,069.45	8.50	2,490.50
7	1-1/4" dia	L.ft	425	4.85	2,061.25	3.65	1,551.25	8.50	3,612.50
	Exhaust Fan								
8	Type- EF-1 Exhaust Fan mfd by:- Greenheck, Model:-SP-A70 55, 15.9 W , 120 / 1 / 60 V	Nos	1	316.00	316.00	70.00	70.00	386.00	386.00
9	Type- EF-2 Exhaust Fan mfd by:-Greenheck, Model:-SP-A200 224, 56.1 W , 120 / 1 / 60 V	Nos	1	412.00	412.00	100.00	100.00	512.00	512.00
10	Type- EF-3 Exhaust Fan mfd by:-Greenheck, Model:-CUBE-131 2102, 750 W , 120 / 1 / 60 V	Nos	1	1,496.00	1,496.00	180.00	180.00	1,676.00	1,676.00
11	Type- EF-4 - EF-7 Exhaust Fan mfd by:-Greenheck, Model:-CUBE-121 1966, 750 W , 120 / 1 / 60 V	Nos	4	1,400.00	5,600.00	180.00	720.00	1,580.00	6,320.00
12	Type- EF-8 Exhaust Fan mfd by:-Greenheck, Model:-CUBE-121 1853, 750 W , 120 / 1 / 60 V	Nos	1	1,400.00	1,400.00	180.00	180.00	1,580.00	1,580.00
	Furnace								
13	Type- F-1 Furnace, mfd by:-York, Model:-TM9Y060B12MP11 ,Outdoor Air 50 CFM(6%)	Nos	1	1,700.00	1,700.00	1,100.00	1,100.00	2,800.00	2,800.00
	Tube Heater								
14	Type- UH-1 Tube Heater mfd by:- Superior radiant , Model:-UA-150 Heating 150, 40'-0" Length, 120 / 1 / 60 V	Nos	1	1,260.00	1,260.00	1,100.00	1,100.00	2,360.00	2,360.00
15	Type- UH-2 Tube Heater mfd by:-Superior radiant , Model:-UA-125 Heating 125, 40'-0" Length, 120 / 1 / 60 V	Nos	1	1,260.00	1,260.00	1,100.00	1,100.00	2,360.00	2,360.00
16	Type- UH-3 - UH12 Tube Heater mfd by:-Superior radiant , Model:-UA-125 Heating 125, 30'-0" Length, 120 / 1 / 60 V	Nos	10	1,225.00	12,250.00	1,100.00	11,000.00	2,325.00	23,250.00
	Baseboard Heater								
17	Type- BBH-1 Baseboard Heater, mfd by:-ELECTROMODE, Model:-BN5712W11, 120V, 1250 W/ 4265 BTU, 56-11/16" Length	Nos	1	52.00	52.00	110.00	110.00	162.00	162.00
	Water heater								
18	Type- HWT-1 Water Heater mfd by:-RUDD, Model:-EGSP6, 120v / 12.5FLA, 6 Gal, 1500 W	Nos	1	525.00	525.00	170.00	170.00	695.00	695.00
	Louvers								
19	Type- L-1 Louver, mfd by:-Greenheck, Model:-EAD-601, 12 x 21 Size, C/W Bird screen, electric actuator L-1 interlocked with exhaust fan, EF-1	Nos	1	645.00	645.00	160.00	160.00	805.00	805.00

Mechanical Estimate - Building B

	Description	Unit	QTY	Material Rate	Material Amount	Labor Rate	Labor Amount	Unit Rate	Amount
	Building B								
20	8 x 4 Sized Grille, 300CFM (4" dia)	Nos	1	15.00	15.00	30.00	30.00	45.00	45.00
21	10 x 6 Sized Grille, 135CFM (6" dia)	Nos	2	23.00	46.00	30.00	60.00	53.00	106.00
22	14 x 6 Sized Grille, 250CFM	Nos	2	29.00	58.00	30.00	60.00	59.00	118.00
23	14 x 8 sized Low Grille, 250CFM (8" dia)	Nos	1	30.00	30.00	30.00	30.00	60.00	60.00
24	22 x 10 sized Low Grille, 550CFM R/A	Nos	1	55.00	55.00	30.00	30.00	85.00	85.00
	Gravity Vent								
25	Type- GV-1 Gravity Vent mfd by:-Greenheck, Model:-GRSI-30, 2102 CFM, 48"dia x 20.5"height	Nos	1	765.00	765.00	190.00	190.00	955.00	955.00
26	Type- GV-2 - GV-5 Gravity Vent mfd by:-Greenheck, Model:-GRSI-30, 1966 CFM, 48"dia x 20.5"height	Nos	4	765.00	3,060.00	190.00	760.00	955.00	3,820.00
27	Type- GV-6 Gravity Vent mfd by:-Greenheck, Model:-GRSI-30, 1853 CFM, 48"dia x 20.5"height	Nos	1	765.00	765.00	190.00	190.00	955.00	955.00
	Vent								
28	Type- VTR, 3" sized Vent Thru Roof	Nos	1	95.00	95.00	148.00	148.00	243.00	243.00
29	1-1/2" vent	L.ft	18	2.00	36.00	6.10	109.80	8.10	145.80
	Plumbing								
	Storm (Above ground)								
30	4" dia	L.ft	59	5.10	300.90	10.90	643.10	16.00	944.00
31	5" dia	L.ft	38	5.80	220.40	11.90	452.20	17.70	672.60
32	8" dia	L.ft	178	8.50	1,513.00	14.00	2,492.00	22.50	4,005.00
	Domestic water (Above ground)								
33	1/2" dia	L.ft	22	4.85	106.70	3.65	80.30	8.50	187.00
34	1" dia	L.ft	39	4.85	189.15	3.65	142.35	8.50	331.50
35	1 1/4" dia	L.ft	53	4.85	257.05	3.65	193.45	8.50	450.50
36	1 1/2" dia	L.ft	49	4.85	237.65	3.65	178.85	8.50	416.50
37	2" dia	L.ft	72	6.90	496.80	3.90	280.80	10.80	777.60
	Valves								
38	1" domestic cold water valved connection for future use	Nos	7	115.00	805.00	70.00	490.00	185.00	1,295.00
	Sanitary (Below ground)								
39	2" dia	L.ft	5	2.50	12.50	6.50	32.50	9.00	45.00
40	4" dia	L.ft	150	3.80	570.00	10.50	1,575.00	14.30	2,145.00
41	6" dia	L.ft	92	8.20	754.40	16.00	1,472.00	24.20	2,226.40
	Fixtures								
42	4" Floor drain	Nos	1	65.00	65.00	110.00	110.00	175.00	175.00
43	Roof Drain, mfd by:-Zurn, Model:-Z125, 8-3/8"dia, 4-1/2"height (HEAD)	Nos	3	155.00	465.00	100.00	300.00	255.00	765.00
	Saw-cut and make good								
44	Allow for saw-cut and make good concrete slab	L.ft	247	9.10	2,247.70	18.90	4,668.30	28.00	6,916.00
	Sub Total				46,768.50		36,519.90		83,288.40
	Insurance	3%			1,403.06		1,095.60		2,498.65
	Overhead and Profit	22%			10,289.07		8,034.38		18,323.45
	Total Amount				58,460.63		45,649.88		104,110.50



- 65 - UH-3-12 - 10 EA
- 67 - UH-2 - 1 EA
- 66 - UH-1 - 1 EA
- 74 - GV-6 - 1 EA
- 73 - GV-2-5 - 4 EA
- 62 - GV-1 - 1 EA
- 69 - EF-4-8 - 5 EA
- 72 - EF-3 - 1 EA
- 64 - EF-1-1 EA
- 61 - EF-1-1 EA
- 63 - BBH-1 - 1 EA
- 68 - EF-2 - 1 EA
- 64 - L-1 - 1 EA
- 122 - 8 x 4 Grille, 300CFM (4" dia) - 1 EA
- 123 - 10 x 6 Grille, 135CFM (6" dia) - 2 EA
- 124 - 14 x 8 Low Grille, 250CFM (8" dia) - 1 EA
- 125 - 22 x 10 Low Grille, 550CFM R/A - 1 EA
- 126 - 14 x 6 Grille, 250CFM - 2 EA
- 127 - 14 x 8 duct, 500 CFM - 16 LF
- 128 - 8 x 8 duct, 300 CFM - 25 LF
- 129 - 14 x 10 duct, 800 CFM - 6 LF
- 130 - 50CFM, O/A, 6" dia, provide motorized outdoor damper interlock with F-1 - 17 LF
- 76 - 3/4" dia - 507 LF
- 77 - 1" dia - 293 LF
- 75 - 1-1/4" dia - 425 LF
- 58 - Removal of WC - 7 EA
- 59 - Removal of lavatory - 7 EA
- 60 - Opening for exhaust fan - 6 EA

EF-8	GREENHECK	CUBE-121	1803	0.120'	1/2	-750	1201989	14.5 x 14.5	86
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MODEL	DIMENSION	FREE AREA
EAH-801	12 x 21	0.98

TRIC ACTUATOR
EXHAUST FAN, EF-3

BBH-1 | ELECTRONMODE | BNS120Y11 | 1250 / 4065 | 120 | 55-1196 | 12.3 | CW BUILT IN T-STAT

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DESIGNER:
GAC ENGINEERING SERVICES INC.
888 MIDLAND RD UNIT 12
TORONTO, ON M4H 2A8
OFFICE TEL: (416) 763-8556
CELL No.: (416) 763-8974
gac.engineering@bell.ca

DRAWING NOTES:

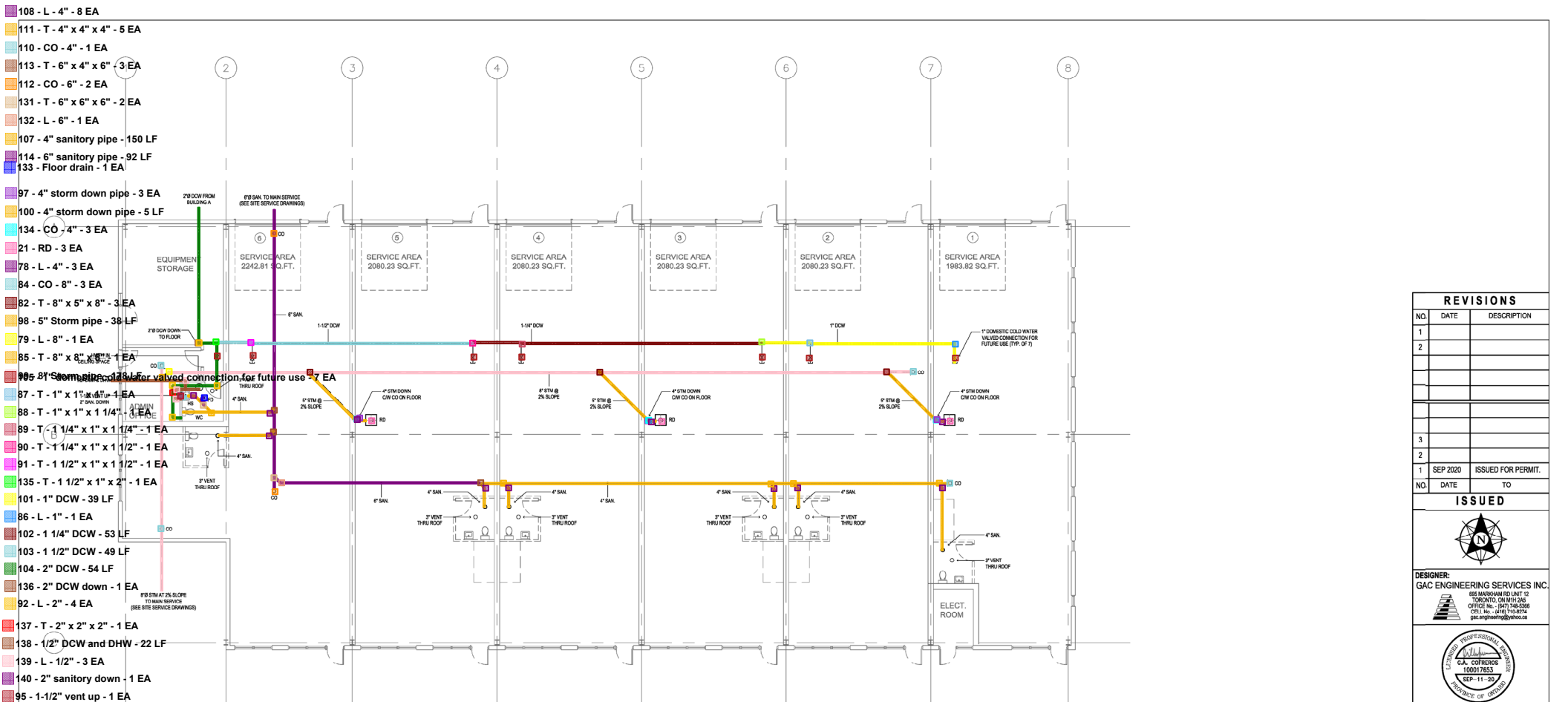
1. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS.
2. DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGNOSTIC CONCEPT OF THE DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSTRUCTION WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

PROJECT:

PROJECT TITLE:
PROPOSED AUTO REPAIR CENTER - BUILDING B
STATE CROWN BLVD
RONTO, ONTARIO

DRAWING TITLE:
HVAC PLAN BLDG B

DRAWN BY: A. C.	DRAWING NO.: <h1>M-3</h1>
CHECKED BY: G. C.	
SCALE: 1/8" = 1'-0"	
DATE: SEPTEMBER 2020	
PROJECT NO.: 020028	



- 108 - L - 4" - 8 EA
- 111 - T - 4" x 4" x 4" - 5 EA
- 110 - CO - 4" - 1 EA
- 113 - T - 6" x 4" x 6" - 3 EA
- 112 - CO - 6" - 2 EA
- 131 - T - 6" x 6" x 6" - 2 EA
- 132 - L - 6" - 1 EA
- 107 - 4" sanitary pipe - 150 LF
- 114 - 6" sanitary pipe - 92 LF
- 133 - Floor drain - 1 EA
- 97 - 4" storm down pipe - 3 EA
- 100 - 4" storm down pipe - 5 LF
- 134 - CO - 4" - 3 EA
- 21 - RD - 3 EA
- 78 - L - 4" - 3 EA
- 84 - CO - 8" - 3 EA
- 82 - T - 8" x 5" x 8" - 3 EA
- 98 - 5" Storm pipe - 38 LF
- 79 - L - 8" - 1 EA
- 85 - T - 8" x 8" x 8" - 1 EA
- 95 - 8" Storm pipe for valved connection for future use - 7 EA
- 87 - T - 1" x 1" x 1" - 4 EA
- 88 - T - 1" x 1" x 1 1/4" - 3 EA
- 89 - T - 1 1/4" x 1" x 1 1/4" - 1 EA
- 90 - T - 1 1/4" x 1" x 1 1/2" - 1 EA
- 91 - T - 1 1/2" x 1" x 1 1/2" - 1 EA
- 135 - T - 1 1/2" x 1" x 2" - 1 EA
- 101 - 1" DCW - 39 LF
- 86 - L - 1" - 1 EA
- 102 - 1 1/4" DCW - 53 LF
- 103 - 1 1/2" DCW - 49 LF
- 104 - 2" DCW - 54 LF
- 136 - 2" DCW down - 1 EA
- 92 - L - 2" - 4 EA
- 137 - T - 2" x 2" x 2" - 1 EA
- 138 - 1/2" DCW and DHW - 22 LF
- 139 - L - 1/2" - 3 EA
- 140 - 2" sanitary down - 1 EA
- 95 - 1-1/2" vent up - 1 EA

TYPE	MAKE	MODEL	GAL.	ELEMENT	RECOVERY AT 100°F (SPH)	ELECTRICAL	WATER CONNECTIONS	DIAMETER	HEIGHT	WEIGHT (LB)
HWT-1	RUDD	EGPPE	6	1,500	6	120V/12.5FLA	3/4" NPT	15-3/4"	15-1/8"	41

CW THERMAL EXPANSION TANK, AMTROL ST-5C

NAME OF ROOF AREA	AREA (SQM)	HYDRAULIC LOAD	MAX PERMITTED HYDRAULIC LOAD DRAINED TO STORM PIPE
BUILDING B	1,200	30,225	870 - 37,800

NOTES:
BASED ON A MAXIMUM 15 MIN. RAINFALL OF 25MM FOR SCARBOROUGH, ON
WATER PUMPING/OUTLETS ARE PROVIDED, PROVISIONS SHALL BE MADE TO DIVERT WATER FROM THE BUILDING AND PREVENT SOIL EROSION

FITTING	CW	HW	WASTE	VENT
WC	1/2"	-	3"	1.5/2"
HS	1/2"	1/2"	1.1/2"	1.5/2"
FD	-	-	3"	1.5/2"

NOTES:
ALL PLUMBING AND DRAINAGE INSTALLATION SHALL CONFORM WITH THE LATEST CANADIAN PLUMBING CODE REGULATION AND THE ONTARIO BUILDING CODE REQUIREMENTS. USE PVC-DWV FOR PIPES ON THE HULL AND PIPES PASS THRU CEILING SPACE USE AS ABS. RETURN MUST BE CONCEALED OR USE PVC-APPROX. FOR HIGH RISE BUILDING PIPES USE PVC-RTD (RISER). ALL DOMESTIC HOT & COLD WATER PIPING SHALL BE COPPER PIPE TYPE 'L'.
ALL FIXTURES/FIXTURES SHALL BE VENTED ACCORDING TO PART 7 OF THE OBC.

SYMBOL	DESCRIPTION
WC	WATER CLOSET
HS	HAND SINK
FD	FLOOR DRAIN
CO	CO RANXIT
HWT	HOT WATER TANK

TYPE	MAKE	MODEL	QUANTITY	PPE SIZE	DIMENSION	WEIGHT (KG)
RD	ZURN	Z135	3	4"	8.3MPA, 4-10PH (HEAT)	14

AS LISTED OR EQUIVALENT

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ISSUED

DESIGNER:
GAC ENGINEERING SERVICES INC.
888 BRIMLEY RD UNIT 12
TORONTO, ON M1H 2A5
OFFICE No.: (416) 748-5555
CELL No.: (416) 748-8274
gac.engineering@rocc.ca

- DRAWING NOTES:**
- THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY DIMENSIONS ON SITE AND REPORT ERRORS AND OMISSIONS.
 - DRAWINGS MUST NOT BE SCALED. DRAWINGS ARE DIAGNOSTIC CONCEPT OF THE DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSTRUCTION WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

CLIENT:

PROJECT TITLE:
PROPOSED AUTO REPAIR CENTER - BUILDING B
95 STATE CROWN BLVD
TORONTO, ONTARIO

DRAWING TITLE:
PLUMBING & DRAINAGE PLAN BLDG B

DRAWN BY: A. C.	DRAWING NO.: M-4
CHECKED BY: G. C.	
SCALE: 1/8" = 1'-0"	
DATE: SEPTEMBER 2020	
PROJECT NO.: 020028	